

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/019, 151C  
Source: PCT  
Date Processed by STIC: 11-2-04

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 11/02/2004

PATENT APPLICATION: US/10/019,151C

TIME: 11:17:12

Input Set : A:\KATO Sequence Listing.txt

Output Set: N:\CRF4\11022004\J019151C.raw

3 <110> APPLICANT: KATO, Seishi  
 4 KIMURA, Tomoko  
 6 <120> TITLE OF INVENTION: Human proteins having hydrophobic domains and DNAs encoding these proteins  
 8 <130> FILE REFERENCE: 2003-0984/WMC/01791  
 10 <140> CURRENT APPLICATION NUMBER: 10/019,151C  
 C--> 11 <141> CURRENT FILING DATE: 2001-12-21  
 13 <150> PRIOR APPLICATION NUMBER: JP 11-178065  
 14 <151> PRIOR FILING DATE: 1999-06-24  
 16 <160> NUMBER OF SEQ ID NOS: 24  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 238  
 20 <212> TYPE: PRT  
 21 <213> ORGANISM: Homo sapiens  
 23 <400> SEQUENCE: 1  
 24 Met Ile Leu Leu Val Ile Leu Ala Phe Tyr Leu Trp Gln Val Asp Met  
 25 1 5 10 15  
 27 Leu Ser Glu Ile Asn Ile Ala Pro Arg Ile Leu Thr Asn Phe Thr Gly  
 28 20 25 30  
 30 Val Met Pro Pro Gln Phe Lys Lys Asp Leu Asp Ser Tyr Leu Lys Thr  
 31 35 40 45  
 33 Arg Ser Pro Val Thr Phe Leu Ser Asp Leu Arg Ser Asn Leu Gln Val  
 34 50 55 60  
 36 Ser Asn Glu Pro Gly Asn Arg Tyr Asn Leu Gln Leu Ile Asn Ala Leu  
 37 65 70 75 80  
 39 Val Leu Tyr Val Gly Thr Gln Ala Ile Ala His Ile His Asn Lys Gly  
 40 85 90 95  
 42 Ser Thr Pro Ser Met Ser Thr Ile Thr His Ser Ala His Met Asp Ile  
 43 100 105 110  
 45 Phe Gln Asn Leu Ala Val Asp Leu Asp Thr Glu Gly Arg Tyr Leu Phe  
 46 115 120 125  
 48 Leu Asn Ala Ile Ala Asn Gln Leu Arg Tyr Pro Asn Ser His Thr His  
 49 130 135 140  
 51 Tyr Phe Ser Cys Thr Met Leu Tyr Leu Phe Ala Glu Ala Asn Thr Glu  
 52 145 150 155 160  
 54 Ala Ile Gln Glu Gln Ile Thr Arg Val Leu Leu Glu Arg Leu Ile Val  
 55 165 170 175  
 57 Asn Arg Pro His Pro Trp Gly Leu Leu Ile Thr Phe Ile Glu Leu Ile  
 58 180 185 190  
 60 Lys Asn Pro Ala Phe Lys Phe Trp Asn His Glu Phe Val His Cys Ala  
 61 195 200 205  
 63 Pro Glu Ile Glu Lys Leu Phe Gln Ser Val Ala Gln Cys Cys Met Gly  
 64 210 215 220  
 66 Gln Lys Gln Ala Gln Gln Val Met Glu Gly Thr Gly Ala Ser

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```

67 225          230          235
70 <210> SEQ ID NO: 2
71 <211> LENGTH: 339
72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 2
76 Met Ala Ala Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu
77   1          5          10          15
79 Gly Leu His Leu Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn
80          20          25          30
82 Asp Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His
83          35          40          45
85 Tyr Asp Arg Tyr Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu
86          50          55          60
88 Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val
89   65          70          75          80
91 Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu
92          85          90          95
94 Cys Lys Thr Asp Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val
95          100         105         110
97 Ser Cys Glu Gly Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly
98          115         120         125
100 Ser Cys Gly Leu Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln
101          130         135         140
103 Lys Leu Lys Glu Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp
104 145          150          155          160
106 Tyr Tyr Tyr Lys Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu
107          165          170          175
109 Ile Thr Ile Val Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu
110          180          185          190
112 Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro
113          195          200          205
115 Pro Phe Ser His Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro
116          210          215          220
118 Pro Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His
119 225          230          235          240
121 Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr
122          245          250          255
124 Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile
125          260          265          270
127 Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp
128          275          280          285
130 Ser Trp Tyr Tyr Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn
131          290          295          300
133 Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys
134 305          310          315          320
136 Ser Asn Ser Asp Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr
137          325          330          335
139 Arg Arg Arg

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```

142 <210> SEQ ID NO: 3
143 <211> LENGTH: 326
144 <212> TYPE: PRT
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 3
148 Met Ala Lys Met Glu Leu Ser Lys Ala Phe Ser Gly Gln Arg Thr Leu
149   1           5           10           15
151 Leu Ser Ala Ile Leu Ser Met Leu Ser Leu Ser Phe Ser Thr Thr Ser
152           20           25           30
154 Leu Leu Ser Asn Tyr Trp Phe Val Gly Thr Gln Lys Val Pro Lys Pro
155           35           40           45
157 Leu Cys Glu Lys Gly Leu Ala Ala Lys Cys Phe Asp Met Pro Val Ser
158           50           55           60
160 Leu Asp Gly Asp Thr Asn Thr Ser Thr Gln Glu Val Val Gln Tyr Asn
161           65           70           75           80
163 Trp Glu Thr Gly Asp Asp Arg Phe Ser Phe Arg Ser Phe Arg Ser Gly
164           85           90           95
166 Met Trp Leu Ser Cys Glu Glu Thr Val Glu Glu Pro Gly Glu Arg Cys
167           100          105          110
169 Arg Ser Phe Ile Glu Leu Thr Pro Ala Lys Arg Glu Ile Leu Trp
170           115          120          125
172 Leu Ser Leu Gly Thr Gln Ile Thr Tyr Ile Gly Leu Gln Phe Ile Ser
173           130          135          140
175 Phe Leu Leu Leu Leu Thr Asp Leu Leu Leu Thr Gly Asn Pro Ala Cys
176 145           150          155          160
178 Gly Leu Lys Leu Ser Ala Phe Ala Ala Val Ser Ser Val Leu Ser Gly
179           165          170          175
181 Leu Leu Gly Met Val Ala His Met Met Tyr Ser Gln Val Phe Gln Ala
182           180          185          190
184 Thr Val Asn Leu Gly Pro Glu Asp Trp Arg Pro His Val Trp Asn Tyr
185           195          200          205
187 Gly Trp Ala Phe Tyr Met Ala Trp Leu Ser Phe Thr Cys Cys Met Ala
188           210          215          220
190 Ser Ala Val Thr Thr Phe Asn Thr Tyr Thr Arg Met Val Leu Glu Phe
191 225           230          235          240
193 Lys Cys Lys His Ser Lys Ser Phe Lys Glu Asn Pro Asn Cys Leu Pro
194           245          250          255
196 His His His Gln Cys Phe Pro Arg Arg Leu Ser Ser Ala Ala Pro Thr
197           260          265          270
199 Val Gly Pro Leu Thr Ser Tyr His Gln Tyr His Asn Gln Pro Ile His
200           275          280          285
202 Ser Val Ser Glu Gly Val Asp Phe Tyr Ser Glu Leu Arg Asn Lys Gly
203           290          295          300
205 Phe Gln Arg Gly Ala Ser Gln Glu Leu Lys Glu Ala Val Arg Ser Ser
206 305           310          315          320
208 Val Glu Glu Glu Gln Cys
209           325
211 <210> SEQ ID NO: 4
212 <211> LENGTH: 324

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```

213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 4
217 Met Ala Ala Ala Ala Pro Gly Asn Gly Arg Ala Ser Ala Pro Arg Leu
218 1 5 10 15
220 Leu Leu Leu Phe Leu Val Pro Leu Leu Trp Ala Pro Ala Ala Val Arg
221 20 25 30
223 Ala Gly Pro Asp Glu Asp Leu Ser His Arg Asn Lys Glu Pro Pro Ala
224 35 40 45
226 Pro Ala Gln Gln Leu Gln Pro Gln Pro Val Ala Val Gln Gly Pro Glu
227 50 55 60
229 Pro Ala Arg Val Glu Lys Ile Phe Thr Pro Ala Ala Pro Val His Thr
230 65 70 75 80
232 Asn Lys Glu Asp Pro Ala Thr Gln Thr Asn Leu Gly Phe Ile His Ala
233 85 90 95
235 Phe Val Ala Ala Ile Ser Val Ile Ile Val Ser Glu Leu Gly Asp Lys
236 100 105 110
238 Thr Phe Phe Ile Ala Ala Ile Met Ala Met Arg Tyr Asn Arg Leu Thr
239 115 120 125
241 Val Leu Ala Gly Ala Met Leu Ala Leu Gly Leu Met Thr Cys Leu Ser
242 130 135 140
244 Val Leu Phe Gly Tyr Ala Thr Thr Val Ile Pro Arg Val Tyr Thr Tyr
245 145 150 155 160
247 Tyr Val Ser Thr Val Leu Phe Ala Ile Phe Gly Ile Arg Met Leu Arg
248 165 170 175
250 Glu Gly Leu Lys Met Ser Pro Asp Glu Gly Gln Glu Glu Leu Glu Glu
251 180 185 190
253 Val Gln Ala Glu Leu Lys Lys Lys Asp Glu Glu Phe Gln Arg Thr Lys
254 195 200 205
256 Leu Leu Asn Gly Pro Gly Asp Val Glu Thr Gly Thr Ser Ile Thr Val
257 210 215 220
259 Pro Gln Lys Lys Trp Leu His Phe Ile Ser Pro Ile Phe Val Gln Ala
260 225 230 235 240
262 Leu Thr Leu Thr Phe Leu Ala Glu Trp Gly Asp Arg Ser Gln Leu Thr
263 245 250 255
265 Thr Ile Val Leu Ala Ala Arg Glu Asp Pro Tyr Gly Val Ala Val Gly
266 260 265 270
268 Gly Thr Val Gly His Cys Leu Cys Thr Gly Leu Ala Val Ile Gly Gly
269 275 280 285
271 Arg Met Ile Ala Gln Lys Ile Ser Val Arg Thr Val Thr Ile Ile Gly
272 290 295 300
274 Gly Ile Val Phe Leu Ala Phe Ala Phe Ser Ala Leu Phe Ile Ser Pro
275 305 310 315 320
278 Asp Ser Gly Phe
281 <210> SEQ ID NO: 5
282 <211> LENGTH: 153
283 <212> TYPE: PRT
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 5

```

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```

287 Met Asn Val Gly Thr Ala His Ser Glu Val Asn Pro Asn Thr Arg Val
288   1           5           10           15
290 Met Asn Ser Arg Gly Ile Trp Leu Ser Tyr Val Leu Ala Ile Gly Leu
291           20           25           30
293 Leu His Ile Val Leu Leu Ser Ile Pro Phe Val Ser Val Pro Val Val
294           35           40           45
296 Trp Thr Leu Thr Asn Leu Ile His Asn Met Gly Met Tyr Ile Phe Leu
297           50           55           60
299 His Thr Val Lys Gly Thr Pro Phe Glu Thr Pro Asp Gln Gly Lys Ala
300   65           70           75           80
302 Arg Leu Leu Thr His Trp Glu Gln Met Asp Tyr Gly Val Gln Phe Thr
303           85           90           95
305 Ala Ser Arg Lys Phe Leu Thr Ile Thr Pro Ile Val Leu Tyr Phe Leu
306           100          105          110
308 Thr Ser Phe Tyr Thr Lys Tyr Asp Gln Ile His Phe Val Leu Asn Thr
309           115          120          125
311 Val Ser Leu Met Ser Val Leu Ile Pro Lys Leu Pro Gln Leu His Gly
312           130          135          140
314 Val Arg Ile Phe Gly Ile Asn Lys Tyr
315 145           150
317 <210> SEQ ID NO: 6
318 <211> LENGTH: 153
319 <212> TYPE: PRT
320 <213> ORGANISM: Homo sapiens
322 <400> SEQUENCE: 6
323 Met Asn Val Gly Val Ala His Ser Glu Val Asn Pro Asn Thr Arg Val
324   1           5           10           15
326 Met Asn Ser Arg Gly Ile Trp Leu Ala Tyr Ile Ile Leu Val Gly Leu
327           20           25           30
329 Leu His Met Val Leu Leu Ser Ile Pro Phe Phe Ser Ile Pro Val Val
330           35           40           45
332 Trp Thr Leu Thr Asn Val Ile His Asn Leu Ala Thr Tyr Val Phe Leu
333           50           55           60
335 His Thr Val Lys Gly Thr Pro Phe Glu Thr Pro Asp Gln Gly Lys Ala
336   65           70           75           80
338 Arg Leu Leu Thr His Trp Glu Gln Met Asp Tyr Gly Leu Gln Phe Thr
339           85           90           95
341 Ser Ser Arg Lys Phe Leu Ser Ile Ser Pro Ile Val Leu Tyr Leu Leu
342           100          105          110
344 Ala Ser Phe Tyr Thr Lys Tyr Asp Ala Ala His Phe Leu Ile Asn Thr
345           115          120          125
347 Ala Ser Leu Leu Ser Val Leu Leu Pro Lys Leu Pro Gln Phe His Gly
348           130          135          140
350 Val Arg Val Phe Gly Ile Asn Lys Tyr
351 145           150
353 <210> SEQ ID NO: 7
354 <211> LENGTH: 200
355 <212> TYPE: PRT
356 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/019,151C

DATE: 11/02/2004  
TIME: 11:17:13

Input Set : A:\KATO Sequence Listing.txt  
Output Set: N:\CRF4\11022004\J019151C.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

Seq#:2; Line(s) 104

## VERIFICATION SUMMARY

DATE: 11/02/2004

PATENT APPLICATION: US/10/019,151C

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Input Set : A:\KATO Sequence Listing.txt

Output Set: N:\CRF4\11022004\J019151C.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:626 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:629 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:632 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:635 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:638 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:641 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:644 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:647 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:650 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:653 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:656 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:659 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:662 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:17  
L:854 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:857 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:860 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:863 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:866 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:869 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:872 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:875 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:878 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:881 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:884 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:887 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:890 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:893 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:896 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:899 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:902 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:905 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:908 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:911 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:914 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:20  
L:943 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:946 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:949 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:952 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:955 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:958 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:961 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:964 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:967 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:970 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:973 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21  
L:1084 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:23  
L:1087 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:23

VERIFICATION SUMMARY

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Input Set : A:\KATO Sequence Listing.txt

Output Set: N:\CRF4\11022004\J019151C.raw

L:1090 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:23  
L:1093 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:23  
L:1096 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:23